

Amendments to the Claims:

Please replace all prior claims versions and listings with the following:

Listing of Claims:

Claims 1-9 (canceled)

10. (original) A method for carrying out a liquid/solid or gas/liquid/solid reaction comprising the step of conveying a liquid or gas/liquid feedstream through a solid catalyst of honeycomb configuration comprising a plurality of parallel channels bounded by catalytically active walls traversing the catalyst from an inlet end to an outlet end thereof, wherein the cross-sectional shape of the channels is free of angled corners and free of curvatures having curvature radii below 10% of the average channel diameter.

11. (currently amended) The method in accordance with claim 10 wherein said reaction comprises a liquid/catalyst contacting and reaction.

12. (original) The method in accordance with claim 10 wherein said reaction comprises a gas/liquid/catalyst reaction.

13. (original) The method in accordance with claim 10 wherein said channels are utilized for conducting gas/liquid/catalyst hydrotreating reactions.

14. (original) The method in accordance with claim 10 wherein said channels are utilized for conducting gas/liquid/catalyst hydrogenation reactions.

15. (original) The method in accordance with claim 10 wherein said reaction is conducted under conditions of liquid linear velocity of between approximately 0.01 and 100 cm/s.

16. (original) The method in accordance with claim 12 wherein said reaction is conducted under conditions wherein said feed has a gas/liquid volume ratio of between approximately 0 and 1000.

17. (original) A method for carrying out a hydrotreating reaction comprising the step of conveying a gas/liquid feedstream through a solid catalyst of honeycomb configuration comprising a plurality of parallel channels bounded by catalytically active walls traversing the catalyst from an inlet end to an outlet end thereof, wherein the cross-sectional shape of the channels is free of angled corners and free of curvatures having curvature radii below 10% of the average channel diameter.

18. (original) A method for carrying out a gas-liquid mass-transfer process comprising the step of conveying gas and liquid feedstreams through a packing structure of honeycomb configuration comprising a plurality of parallel channels bounded by channel walls traversing the structure from an inlet end to an outlet end thereof, wherein the cross-sectional shape of the channels is free of angled corners and free of curvatures having curvature radii below 10% of the average channel diameter.

19. (original) A method in accordance with claim 18 wherein the gas-liquid mass transfer process is an absorption, scrubbing, stripping or distillation process.

-- 20. (new) A method for carrying out a liquid/solid or gas/liquid/solid reaction comprising the step of conveying a liquid or gas/liquid feedstream through a solid catalyst of honeycomb configuration comprising a plurality of parallel channels bounded by catalytically active walls traversing the catalyst from an inlet end to an outlet end thereof, wherein

(a) the cross-sectional shape of the channels is free of angled corners and free of curvatures having curvature radii below 10% of the average channel diameter;

(b) the liquid is passed through the solid catalyst at a liquid linear velocity between 0.01 and 100 cm/s; and

(c) the feedstream has a gas/liquid volume ratio of between 0 and 1000.--

Amendment to the Drawings:

The attached Replacement Sheet of drawings includes changes to Fig. 1. The original drawing sheet included Fig. 1 and Figs. 2a-2c. This Replacement sheet includes Figs. 1a -1b and Figs. 2a-2c.

In the Replacement Sheet, the legend of Fig. 1 has been changed to add legends separately identifying Fig. 1a (Prior Art) and Fig. 1b.

Attachment: Replacement Sheet